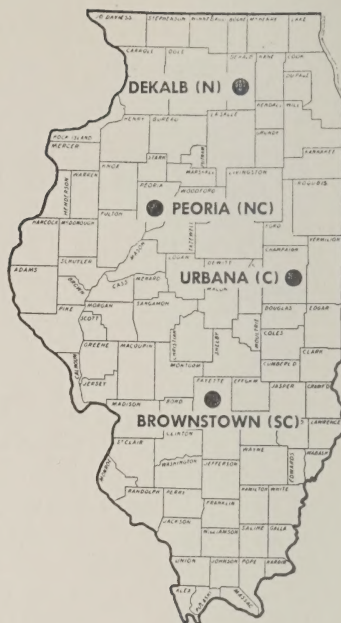


Experimental
CORN HYBRIDS
1952 TESTS

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AGRICULTURAL EXPERIMENT STATION

Location of regular
experimental-hybrid
test fields



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Acknowledgment is due W. T. Schwenk and Sons, *Edwards*, for providing land for one of the tests.

EXPERIMENTAL CORN HYBRIDS TESTED IN 1952

By L. F. BAUMAN, D. E. ALEXANDER, R. W. JUGENHEIMER,
and C. M. WOODWORTH¹

THIS REPORT summarizes the results of tests of experimental corn hybrids conducted in 1952 by this Station. Trials were made at four locations: in DeKalb county in northern Illinois, in Peoria county in north-central Illinois, in Champaign county in central Illinois, and in Fayette county in south-central Illinois. These four locations are representative of the soil, rainfall, and length of growing season in their respective areas.

Hybrids were compared for yield, maturity, resistance to lodging, and other agronomic characters. Only hybrids of similar maturity were tested on the same field. A familiar hybrid whose maturity was considered the standard for the group is named in each table heading.

Since most of the hybrids whose performance is recorded here are not yet in commercial use, the information about them is of most value to producers of hybrid seed. The 1952 performance of hybrids available in commercial quantities to farmers is reported in Bulletin 564 of this Station.

MEASURING PERFORMANCE

All plots in these tests were planted and thinned by hand in fields prepared in the usual way for corn. Six kernels were planted in hills spaced 40 inches apart. Three plants per hill were left in all tests, except in the trial in Peoria county where one half of each plot was thinned to 3 per hill, the other half to 4 per hill. Plots were 2×5 hills except at Urbana and DeKalb, where they were 2×8 . All entries were replicated and usually arranged in a lattice-square design.

Data from all plots are included in the results. The only correction for imperfect stands was the following adjustment for missing hills:

$$\text{Corrected weight} = \text{Field weight} \times \frac{\left(\frac{\text{Number of hills}}{\text{per plot}} \right) - \left(\frac{0.3 \times \text{Number of missing}}{\text{hills per plot}} \right)}{\left(\frac{\text{Number of hills}}{\text{per plot}} \right) - \left(\frac{\text{Number of missing}}{\text{hills per plot}} \right)}$$

¹ L. F. Bauman and D. E. Alexander, First Assistants in Plant Genetics; and R. W. Jugenheimer and C. M. Woodworth, Professors of Plant Genetics.

This adjustment adds 0.7 of the average hill yield for each missing hill, and assumes that 0.3 is made up by the increased yield of surrounding hills.

General information concerning the tests is given in Table 1, including dates of planting and harvesting.

Double-cross hybrids are listed in the tables in the order of their yield. Acre-yields are reported as shelled grain containing 15.5 percent moisture, the maximum allowable for No. 2 corn. To determine the shelling percentage and moisture percentage, the corn from one replication of each entry at each location was shelled. Percentage of moisture in the shelled grain was obtained with a Steinlite moisture meter.

Table 1.—GENERAL INFORMATION: Tests of Illinois
Experimental Corn Hybrids, 1952

County ^a	Section of state	Number of hills per plot	Plants per hill	Date of—	
				Planting	Harvesting
DeKalb.....	Northern	16	3	May 13	October 20
Peoria.....	North-Central	10	3 and 4	May 27	October 16
Champaign.....	Central	16	3	May 15	October 28
Fayette.....	South-Central	10	3	May 20	October 14

^a The fields are located near the following cities and towns: in DeKalb county near DeKalb, in Peoria county near Peoria, in Champaign county near Urbana, and in Fayette county near Brownstown.

Erect plants at harvest and stand were determined from actual counts on all replications of each test for which such data are presented. Plant and ear heights are recorded in inches.

MATERIAL TESTED

Two hundred thirty-three different hybrids were grown at the four locations. The Illinois hybrids were developed by members of the Plant Breeding division of the University of Illinois Agronomy Department. The seed was produced by controlled hand-pollination.

The University does not produce hybrid seed corn in commercial quantities. If a hybrid gives satisfactory performance, the parental lines are released for use by seedsmen. Hybrids that include new inbred lines are produced under the "delayed release" program adopted by most of the states in the corn belt. Delayed release enables

the Experiment Station to control the use of the new line during the early years of its commercial utilization. Multiplication of a new line is handled by the Station and the production of single crosses in quantity is handled by the Illinois Seed Producers Association. After a satisfactory probationary period of two to five years, a new line is released to the public.

Table 7 (pages 16 to 19) lists the double-cross hybrids whose performance is shown in this report and the tables in which each appears. It also contains the pedigrees of the Illinois Agricultural Experiment Station and U. S. hybrids tested. In the pedigrees the order of the single crosses and of the lines in the single crosses has no significance; it does not indicate which should be used as seed or pollen parent in the production of a hybrid.

Illinois yellow hybrids are numbered consecutively below 2000 and above 6000. White hybrids are numbered in the 2000 series; these are usually followed by the letter "W." Hybrids that have performed well after wide testing in several corn-belt states have been designated AES (Agricultural Experiment Station) hybrids. Hybrids in the 700 series correspond in maturity to the Illinois 21 group; the 800 series corresponds to the U. S. 13 group.

The letter "A" or "B" following an Illinois hybrid number indicates that the combination of inbred lines making up the hybrid has been rearranged or "permuted." For example, if the original pedigree of an Illinois hybrid was $(1 \times 2) (3 \times 4)$, the letter "A" following the number means that the hybrid was put together $(1 \times 3) (2 \times 4)$, the letter "B," $(1 \times 4) (2 \times 3)$. A difference in reciprocals is not recognized in this method. When a short dash (-) followed by a number occurs as a part of an Illinois hybrid number, it means that a tested related line has been substituted for one of the inbred lines included in the original hybrid.

RESULTS OF THE TESTS

Data obtained from the tests are summarized in Tables 2 to 6. Long-time averages are more reliable indexes of the performance of hybrids than a single year's result. Therefore the parts of the tables summarizing the results of two or more years deserve the most weight when the results are studied.

Relative performance cannot be determined with absolute accuracy by any method of testing. Small differences between entries are seldom

of any significance. In fact, small differences are to be expected among plots planted even with the same lot of seed. Variations in growing conditions, such as soil fertility, are only reduced, not completely eliminated, by replicating the same hybrid several times in the same test. Unavoidable variation may be determined by a mathematical procedure known as "analysis of variance." From this procedure a figure is obtained that represents the number of bushels by which two entries must differ in yielding ability before they can be considered significantly different. Note, for example, in Table 3B that unless any two entries differ by at least 6 bushels per acre there is no statistical difference between them in yielding ability. Thus Ill. 1289 can be considered higher yielding than Ill. 1375, but not higher than Ill. 1279, Ill. 1277, or Ill. 1555A.

Trials at all four fields were on well-fertilized soils. At DeKalb, Urbana, and Brownstown, 96, 66, and 40 pounds of supplemental nitrogen were applied respectively, largely as side-dressing at second cultivation.

Insect and disease damage was slight at all locations. Early harvesting plus dry weather resulted in practically no lodging except at Brownstown. Moisture in grain was abnormally low, running as low as 14 percent.

Double crosses. The following double crosses were average or better in yield and standability and average or earlier in maturity, as measured by the percent of moisture in the grain, for a period of at least three years. Certain hybrids are also included that closely approximate the mean in one quality, but are outstanding in another quality.

Northern Illinois

Ill. 1289, Ill. 1280, Ill. 1277, Ill. 1290, Ill. 1555A, Ill. 1560A, Ill. 1557, Ill. 1559B.

North-Central Illinois

Ill. 1511, Ill. 972A-1, Ill. 274-1, Ill. 1290, Ill. 1280, Ill. 1555A, Ill. 1559B, Ill. 1560A, Ill. 1277, Ill. 1611, Ill. 1557, Ill. 1609.

Central Illinois

Ill. 1511, Ill. 972A-1, Ill. 274-1, Ill. 1337, U.S. 13, Ill. 1332.

South-Central Illinois

Ill. 2214W, Ill. 1539A, Ill. 1567B, Ill. 2231W, Ill. 2226W, Ill. 1541A.

Male-sterile hybrids. Male-sterile single crosses (33-16 type) and their normal counterparts were tested in a five-replicate trial at Urbana in 1952 (Table 2). In addition, two double-cross hybrids and their respective counterparts produced on male-sterile seed parents were tested in the same trial.

Differences in yield between the male-sterile single crosses and their normal counterparts were not significant. No significant difference existed between the yields of double-cross hybrids produced on male-sterile seed parents and of those from normal pollen-shedding seed parents.

Male-sterile single crosses were consistently shorter than their normal counterpart. However, no differences were found in ear height.

Table 2.—MALE-STERILE AND FERTILE SINGLE-CROSS HYBRIDS AND DOUBLE-CROSS HYBRIDS PRODUCED ON MALE-STERILE AND NORMAL SEED PARENTS

Tested in Central Illinois, 1952 (5 replications)

Entry	Acre yield	Moisture in grain	Height	
			Plant	Ear
	<i>bu.</i>	<i>perct.</i>	<i>in.</i>	<i>in.</i>
WF9#1 × Hy2 (sterile).....	112	17	82	45
WF9#2 × Hy2 (sterile).....	117	18	82	45
WF9 × Hy2.....	118	20	84	44
WF9#3 × 38-11 (sterile).....	119	17	79	42
WF9#2 × 38-11 (sterile).....	115	17	79	42
WF9 × 38-11.....	120	17	82	42
WF9#4 × M14 (sterile).....	118	16	75	36
WF9#5 × M14 (sterile).....	116	17	73	32
WF9 × M14.....	117	17	78	32
Ill. 1570 (male-sterile seed parent).....	111	20	83	49
Ill. 1570.....	109	20	84	48
Ill. 1280 (male-sterile seed parent).....	103	17	99	37
Ill. 1280.....	110	17	100	35

Table 3.—DOUBLE CROSSES OF ILLINOIS 1277 MATURITY
Tested in Northern Illinois, 1948-1952

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shelling	Erect plants	Stand	Height	
							Plant	Ear
A — Five-year averages, 1948-1952								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>in.</i>
1	Ill. 1289.....	94	23	77	93	96	103	37
2	Ill. 1280.....	93	23	78	90	97	105	37
3	Ill. 1277.....	92	24	78	92	98	107	39
4	Ill. 21.....	90	26	76	86	99	112	47
5	Ill. 1375.....	88	23	78	94	94	101	36
	Average.....	91	24	77	91	97	106	39
	Significant difference.....	5						
B — Three-year averages, 1950-1952								
1	Ill. 1289.....	86	26	77	96	99	101	35
2	Ill. 1290.....	85	26	76	96	95	101	40
3	Ill. 1555A.....	83	22	79	96	99	106	38
4	Ill. 1560A.....	83	25	78	100	100	104	36
5	Ill. 1557.....	83	25	75	99	97	100	34
6	Ill. 1280.....	83	26	77	96	98	105	37
7	Ill. 1277.....	82	26	77	94	99	105	39
8	Ill. 1559B.....	81	24	76	99	97	102	32
9	Ill. 1091A.....	81	29	76	99	99	104	39
10	Ill. 1279.....	81	26	77	96	98	104	40
11	Ill. 1558.....	81	28	75	99	97	100	35
12	Ill. 1575.....	80	29	76	96	100	106	39
13	Ill. 1375.....	78	25	77	96	98	98	34
14	Ill. 1595.....	77	25	75	97	99	106	40
15	Ill. 101.....	76	26	75	98	96	101	37
16	Ill. 21.....	73	30	74	93	99	107	46
	Average.....	81	28	76	97	98	103	38
	Significant difference.....	6						
C — Two-year averages, 1951-1952								
1	Ill. 1493.....	94	28	78	98	99	107	40
2	Ill. 1289.....	94	26	76	96	98	102	36
3	Ill. 1280.....	94	28	76	98	98	106	40
4	Ill. 1558.....	94	29	75	99	98	102	38
5	AES 702 (formerly Ill. 1790).....	94	25	73	97	99	108	44
6	Ill. 1555A.....	92	23	78	96	100	108	42
7	Ill. 1290.....	92	28	76	94	98	106	40
8	Ill. 1575.....	91	31	74	95	100	108	40
9	Ill. 1557.....	90	26	74	99	98	102	36
10	Ill. 1579.....	90	26	77	100	99	98	34
11	Ill. 1560A.....	90	27	76	100	100	105	38
12	Ill. 1277.....	90	28	76	94	98	106	40
13	Ill. 1279.....	89	30	76	98	98	104	40
14	Ill. 1584.....	88	26	78	94	99	110	40
15	Ohio K24.....	88	25	78	94	97	105	38
16	Ill. 21.....	88	30	74	95	98	112	49
17	Ill. 1091A.....	87	32	75	98	98	107	41
18	Ill. 1559B.....	86	26	76	98	98	103	34
19	Ill. 101.....	86	30	75	98	97	102	38
20	Ill. 1585.....	85	28	74	98	92	106	38
21	Ill. 1586.....	84	26	74	96	96	100	34
22	Ill. 1595.....	84	27	74	98	98	108	43
23	Ill. 1281.....	84	29	75	96	98	94	36
24	Nebr. 1389A.....	83	25	76	98	98	98	38
25	Ill. 1375.....	82	27	76	98	97	100	34
	Average.....	88	28	76	97	98	104	39
	Significant difference.....	4						

(Table is concluded on next page)

Table 3. — Concluded

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shelling	Erect plants	Stand	Height	
							Plant	Ear
D — 1952 results (4 replications)								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>in.</i>
1	Ill. 1814.....	133	23	79	99	98	102	40
2	AES 702.....	118	24	77	100	99	106	45
3	I.S.P. 2.....	117	24	75	100	97	104	39
4	Ill. 1280.....	115	21	77	99	95	101	40
5	AES 805.....	114	25	74	99	98	110	45
6	Ill. 1558.....	114	23	77	100	95	99	39
7	Ill. 21.....	112	23	78	98	98	108	49
8	Ill. 1279.....	111	21	78	99	99	101	40
9	Ill. 1290.....	110	23	77	99	98	103	41
10	Ill. 1575.....	110	24	77	100	99	104	40
11	Ind. 0424.....	110	19	77	100	99	100	36
12	Ill. 1289.....	109	23	76	97	98	101	37
13	Ill. 1277.....	109	21	76	99	97	102	40
14	Ill. 1801.....	108	19	80	100	97	97	39
15	Ill. 101.....	107	22	76	100	99	99	38
16	Ill. 1570.....	107	22	76	100	99	99	38
17	Ill. 1091A.....	106	24	77	100	96	103	42
18	Ill. 1493.....	106	21	73	100	99	102	38
19	Ill. 1579.....	106	19	77	100	98	96	34
20	Ill. 1800.....	106	19	77	99	97	97	39
21	Ill. 1805.....	106	19	83	99	95	95	38
22	Ill. 1557.....	104	22	76	100	97	100	37
23	Ill. 1560A.....	104	21	77	100	99	100	37
24	Minn. 411.....	104	19	81	100	96	96	32
25	AES 610.....	103	19	77	100	99	92	30
26	Ohio K24.....	103	19	77	100	96	101	38
27	Ill. 1555A.....	102	19	79	99	99	103	43
28	Ill. 1281.....	101	22	75	99	99	94	38
29	Minn. 412.....	101	20	78	99	97	97	36
30	Ill. 1799.....	100	18	81	99	100	96	39
31	Ill. 1802.....	99	18	79	100	90	101	41
32	Ill. 1809.....	99	17	79	98	98	94	39
33	Nebr. 1389A.....	99	20	78	99	96	94	38
34	Ill. 1559B.....	98	21	77	100	98	99	34
35	Ill. 1585.....	98	21	73	99	87	104	39
36	Ill. 1807.....	98	19	78	100	98	99	41
37	Ill. 1595.....	97	20	74	100	99	104	42
38	Ill. 1808.....	97	18	80	97	100	97	40
39	Ohio M15.....	97	19	80	98	96	103	43
40	Ill. 1584.....	96	21	78	98	98	105	39
41	Ill. 1811.....	96	18	77	98	99	97	40
42	Ill. 1375.....	94	21	76	99	95	97	35
43	Ill. 1806.....	94	18	77	98	100	95	37
44	Ind. 0421.....	93	18	80	100	99	93	36
45	Ill. 1586.....	92	21	76	99	94	97	35
46	Ind. 0412.....	92	17	71	100	99	93	36
47	Ill. 1795.....	89	18	74	99	100	93	35
48	Ill. 1810.....	87	20	72	100	98	97	39
49	Ill. 1796.....	80	18	77	99	95	96	39
	Average.....	103	20	77	99	97	99	39
	Significant difference.....	7						

Table 4.—DOUBLE CROSSES OF ILLINOIS 21 MATURITY
Tested in North-Central Illinois, 1948-1952

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shelling	Erect plants	Stand	Height	
							Plant	Ear

A — Five-year averages, 1948-1952

		bu.	perct.	perct.	perct.	perct.	in.	in.
1	Ill. 1511.....	116	20	82	92	94	...	..
2	Ill. 972A-1.....	113	20	81	90	92	...	..
3	Ill. 274-1.....	111	20	81	93	98	...	..
4	Ill. 21.....	109	21	81	87	96	...	..
5	U.S. 13.....	109	21	79	87	97	...	..
	Average.....	112	20	81	90	95	...	..
	Significant difference.....	6						

B — Three-year averages, 1950-1952

1	Ill. 1290.....	93	21	81	96	99	105	40
2	Ill. 1280.....	92	21	82	96	99	108	39
3	Ill. 1555A.....	92	18	83	97	98	109	37
4	Ill. 1559B.....	91	20	80	97	98	103	33
5	Ill. 1560A.....	91	20	81	100	100	106	37
6	Ill. 1277.....	91	22	80	97	99	108	40
7	Ill. 1575.....	91	23	79	99	100	108	41
8	Ill. 1375.....	90	23	82	97	100	102	36
9	Ill. 1611.....	90	20	79	98	99	108	43
10	Ill. 1557.....	89	21	81	99	97	104	35
11	Ill. 1609.....	88	19	79	96	99	111	43
12	Ill. 1289.....	87	21	79	96	100	102	35
13	Ill. 21.....	85	26	79	92	99	111	47
14	U.S. 13.....	84	25	76	88	99	111	48
	Average.....	90	22	80	96	99	107	40
	Significant difference.....	7						

C — Two-year averages, 1951-1952

1	Ill. 1511.....	116	21	82	95	100	116	52
2	Ill. 1617.....	114	22	78	94	96	113	46
3	Ill. 972A-1.....	113	22	82	96	98	114	44
4	AES 805 (formerly Ill. 1770).....	110	23	78	100	99	114	45
5	Ill. 1332.....	109	20	81	94	99	114	47
6	Ill. 1570.....	108	23	78	94	100	110	49
7	Ill. 1575.....	108	22	80	99	100	112	43
8	Ill. 274-1.....	107	21	81	96	98	114	49
9	Ill. 21.....	106	23	81	94	98	114	50
10	U.S. 13.....	106	22	78	96	98	114	51
11	Ill. 1280.....	105	20	84	97	99	110	42
12	Ill. 1611.....	105	20	81	98	98	110	44
13	Ill. 1555A.....	105	18	85	96	100	112	40
14	Ill. 1760.....	104	23	78	98	99	116	46
15	Ill. 1290.....	104	20	82	96	98	106	41
16	Ill. 1277.....	104	22	81	99	98	111	42
17	Ill. 1560A.....	102	20	80	99	100	108	40
18	AES 702 (formerly Ill. 1790).....	102	22	76	96	99	110	45
19	Ill. 1375.....	100	19	84	99	100	106	36
20	Iowa 4297.....	100	20	82	96	96	111	40
21	Ill. 1559B.....	100	20	81	95	100	106	36
22	Ill. 1557.....	99	20	82	98	100	108	38
23	Ill. 1609.....	99	19	80	98	98	114	45
24	Ill. 1289.....	94	21	80	95	100	104	37
	Average.....	105	21	81	96	98	111	44
	Significant difference.....	8						

(Table is concluded on next page)

Table 4. — Concluded

Rank in yield	Entry	Acre yield			Mois- ture in grain	Shelling	Erect plants	Stand	Height	
		Mean ^a	4 plants per hill	3 plants per hill					Plant	Ear
D — 1952 results (4 replications)										
		<i>bu.</i>	<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>in.</i>
1	Ill. 1511.....	128	150	106	21	82	96	100	120	58
2	Ill. 972A-1.....	122	139	105	22	83	97	100	118	56
3	Ill. 1819.....	122	132	113	20	81	97	100	114	52
4	Ill. 1332.....	120	132	108	20	81	92	99	118	53
5	Ill. 1617.....	120	117	122	22	78	93	86	114	48
6	Ill. 1860.....	119	138	100	23	78	99	100	117	53
7	Ill. 1575.....	118	127	109	22	79	100	99	115	49
8	Ill. 1814.....	118	123	114	23	80	99	93	111	46
9	U.S. 13.....	117	129	105	23	78	96	99	120	56
10	Nebr. 1617B.....	117	126	108	25	80	97	99	112	50
11	Ill. 274-1.....	117	121	113	22	82	96	99	118	56
12	AES 805.....	116	140	91	23	79	100	100	118	50
13	Ill. 1822.....	116	129	102	21	81	100	99	113	46
14	Ill. 1815.....	116	127	105	25	80	99	95	115	52
15	Nebr. 1626C.....	115	126	104	22	80	93	95	111	48
16	Ill. 1570.....	114	127	102	22	77	94	100	113	55
17	Ill. 1555A.....	114	122	105	17	86	100	99	116	46
18	Ill. 1826.....	114	122	105	24	80	95	98	115	46
19	Ill. 1760.....	112	133	92	24	78	99	100	120	49
20	Ill. 21.....	112	127	96	23	82	94	98	118	55
21	Ill. 1560A.....	112	127	98	19	80	99	100	114	46
22	Ill. 1827.....	112	122	101	22	80	99	100	113	44
23	Ill. 1277.....	112	121	102	22	80	100	98	115	48
24	Ill. 1831.....	112	121	104	21	79	96	100	114	48
25	Ill. 1611.....	111	122	100	19	82	97	99	113	50
26	Ill. 1559B.....	111	122	100	19	81	93	100	114	40
27	Ill. 1813.....	110	136	85	24	78	100	90	119	52
28	Ill. 1821.....	110	123	98	20	81	94	100	113	48
29	Ill. 1830.....	110	121	98	25	80	97	98	117	46
30	Ill. 1280.....	110	117	104	20	81	96	99	114	48
31	Ill. 1290.....	108	120	97	20	83	93	99	110	46
32	Ill. 1829.....	108	121	96	20	83	97	99	110	44
33	Ill. 1375.....	108	123	93	18	85	99	100	112	44
34	Iowa 4297.....	107	120	94	19	81	93	95	118	45
35	I.S.P. 2.....	107	113	101	25	77	99	99	112	44
36	Ill. 1828.....	106	112	99	23	80	99	93	110	45
37	Ill. 1824.....	106	118	94	21	79	100	94	115	48
38	Ill. 1825.....	106	114	98	22	79	97	99	112	42
39	Ind. 1405.....	106	112	99	20	77	100	89	110	42
40	AES 702.....	105	108	102	22	75	96	98	114	50
41	Ill. 1820.....	104	108	99	24	77	98	74	110	46
42	Ill. 1832.....	104	113	97	21	79	96	98	114	45
43	Ohio 4915.....	104	116	92	22	83	96	98	108	40
44	Ill. 1823.....	104	119	89	20	81	100	100	114	44
45	Ill. 1816.....	104	120	88	23	80	100	100	115	47
46	Ill. 1557.....	102	111	93	21	82	98	100	112	43
47	Ill. 1609.....	102	110	94	18	80	96	98	118	51
48	Ill. 1818.....	101	115	87	19	81	97	100	109	51
49	Ill. 1289.....	98	109	87	21	80	92	100	109	44
	Average.....	111	122	102	22	80	97	97	114	48
	Significant difference..	14								

^a Average of next two columns.

Table 5.—DOUBLE CROSSES OF U. S. 13 MATURITY
Tested in Central Illinois, 1948-1952

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shelling	Erect plants	Stand	Height	
							Plant	Ear

A — Five-year averages, 1948-1952

		bu.	perct.	perct.	perct.	perct.	in.	in.
1	Ill. 1511.....	110	19	82	88	95	...	..
2	Ill. 972A-1.....	108	18	81	87	93	...	..
3	Ill. 274-1.....	106	19	82	88	98	...	..
4	U.S. 13.....	105	19	80	78	98	...	..
5	Ill. 1337.....	105	19	81	81	97	...	..
6	Ill. 21.....	104	19	81	80	97	...	..
7	Ill. 1515.....	104	21	77	84	98	...	..
	Average.....	106	19	81	84	97	...	..
	Significant difference.....	5						

B — Three-year averages, 1950-1952

1	Ill. 1511.....	103	19	82	87	96	116	48
2	Ill. 1633.....	103	18	80	81	100	117	49
3	Ill. 972A-1.....	102	18	81	88	97	117	48
4	Ill. 274-1.....	101	17	82	88	98	114	46
5	Ill. 1337.....	100	19	80	81	98	115	47
6	Ill. 21.....	100	18	81	82	97	117	47
7	U.S. 13.....	99	19	80	77	98	119	53
8	Ill. 1332.....	99	18	81	90	97	115	47
9	Ill. 1570.....	98	19	80	79	97	111	47
10	Ill. 1515.....	98	20	77	89	99	115	47
11	Ill. 1656.....	93	19	79	89	98	116	47
	Average.....	100	18	80	81	98	116	48
	Significant difference.....	7						

C — Two-year averages, 1951-1952

1	Ill. 1759.....	105	20	80	86	98	114	46
2	Ill. 1764.....	104	18	80	82	100	114	48
3	AES 805 (formerly Ill. 1770).....	103	18	80	88	100	114	46
4	Ill. 1421.....	101	18	82	91	100	115	46
5	Ill. 1511.....	100	18	82	86	100	114	48
6	Mo. 860.....	100	20	79	82	98	116	52
7	Ill. 1788.....	100	19	78	87	100	115	48
8	Ill. 972A-1.....	100	16	81	88	100	115	47
9	Ill. 1760.....	99	20	78	88	100	116	47
10	Ill. 1515.....	98	20	77	82	100	115	47
11	Ill. 1783.....	97	18	80	85	99	116	46
12	U.S. 13.....	96	18	80	74	100	118	53
13	Ill. 1766.....	96	18	79	80	100	116	50
14	Ill. 1337.....	96	18	80	78	98	114	46
15	Ill. 1332.....	96	16	81	89	99	112	46
16	Ill. 1633.....	96	18	80	84	100	114	47
17	Ill. 274-1.....	96	16	82	84	100	115	46
18	Ill. 1781.....	95	17	81	86	100	116	47
19	Ill. 1777.....	95	18	80	80	98	116	47
20	Ill. 1761.....	94	18	82	90	99	112	43
21	AES 702 (formerly Ill. 1790).....	94	18	79	90	100	113	42
22	Ill. 1767.....	93	20	80	74	100	114	46
23	Ill. 1570.....	90	18	80	76	100	110	47
24	Ill. 1656.....	89	18	79	82	100	114	46
	Average.....	97	18	80	84	100	114	47
	Significant difference.....	7						

(Table is concluded on next page)

Table 5. — Concluded

Rank in yield	Entry	Acre yield	Moist- ure in grain	Shelling	Erect plants	Stand	Height	
							Plant	Ear
D — 1952 results (4 replications)								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>in.</i>
1	AES 801.....	112	17	80	99	100	109	40
2	Ill. 1759.....	111	18	78	97	98	112	46
3	Ill. 274-1.....	108	14	82	99	99	114	46
4	Ill. 1633.....	107	16	80	91	99	113	48
5	Ill. 972A-1.....	105	16	80	97	99	114	48
6	Ill. 1421.....	105	17	82	98	100	112	47
7	Ill. 1764.....	105	17	79	96	100	110	47
8	Ohio 4813.....	104	17	78	99	99	116	46
9	Nebr. 1363B.....	103	18	75	93	100	113	51
10	AES 803.....	103	16	79	96	99	110	42
11	Ohio 4822.....	103	20	78	99	99	115	44
12	Ohio 4808.....	102	17	80	99	99	114	45
13	Mo. 4042W.....	102	20	72	99	100	107	45
14	Ill. 1836.....	102	16	81	97	99	112	49
15	Ill. 1788.....	102	18	77	96	99	114	52
16	Ill. 21.....	102	15	82	96	100	114	46
17	Ill. 1511.....	101	16	81	94	100	112	49
18	AES 802.....	101	15	80	94	88	108	44
19	Ind. 1651.....	101	18	79	97	99	109	43
20	Mo. 4041W.....	101	20	72	88	98	115	52
21	Mo. 860.....	100	18	78	99	97	114	54
22	Ill. 1835.....	100	17	80	98	100	113	55
23	Ill. 1332.....	100	15	80	99	98	109	46
24	Ind. 9602.....	99	17	78	100	95	113	47
25	AES 805.....	99	18	78	97	99	113	46
26	Ill. 1837.....	99	18	79	97	99	115	50
27	Ill. 1766.....	99	16	79	96	99	115	48
28	Ill. 1337.....	99	16	80	92	99	111	47
29	Ill. 1515.....	99	19	75	99	99	114	49
30	Ill. 1843.....	98	16	80	99	99	114	48
31	Ill. 1845.....	98	17	79	100	98	115	45
32	AES 702.....	98	16	79	96	100	112	44
33	Ill. 1767.....	98	18	78	97	99	113	45
34	Ill. 1777.....	97	16	80	97	98	114	46
35	Ill. 1789.....	97	18	77	99	98	112	47
36	Nebr. 1602B.....	97	16	81	100	100	109	42
37	U.S. 13.....	96	16	79	91	99	117	54
38	C.B. 8805.....	96	17	75	94	100	115	48
39	Ill. 1834.....	96	18	80	98	99	116	51
40	Ill. 1783.....	96	16	80	98	98	113	44
41	Ill. 1761.....	96	17	81	97	99	110	42
42	Ill. 1570.....	96	17	79	98	100	106	47
43	Ill. 1781.....	95	15	80	97	100	114	47
44	Ill. 1760.....	94	19	76	99	100	113	43
45	Ill. 1842.....	93	16	78	100	100	112	46
46	Ill. 6021.....	93	17	79	90	98	116	51
47	Ill. 6016.....	89	17	80	95	98	112	49
48	Ill. 1841.....	87	16	79	99	98	112	48
49	Ill. 1656.....	86	16	77	93	99	112	46
	Average.....	99	17	79	97	99	113	47
	Significant difference.....	8						

Table 6. — DOUBLE CROSSES OF ILLINOIS 448 MATURITY
Tested in South-Central Illinois, 1948-1952

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shelling	Erect plants	Stand	Height	
							Plant	Ear
A — Five-year averages, 1948-1952								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>in.</i>
1	Ill. 1349	99	20	82	80	96	117	49
2	Ill. 1521B	98	24	78	82	95	117	52
3	Ill. 1540	98	22	80	85	94	119	52
4	Ill. 1541A	97	21	80	82	96	122	53
5	Ill. 1539A	97	23	80	80	92	118	51
6	U.S. 13	97	18	82	77	100	114	44
7	Ill. 1459	96	23	79	72	92	122	54
8	Ill. 1445A	95	22	79	71	97	120	53
9	Ill. 200	92	18	82	71	96	118	49
	Average	96	21	80	78	95	118	51
	Significant difference	6						
B — Three-year averages, 1950-1952								
1	Ill. 1657	106	23	82	81	99	119	50
2	Ill. 2214W	104	22	82	85	97	117	49
3	Ill. 1673	101	22	81	80	97	116	47
4	Ill. 1539A	101	21	80	88	99	118	48
5	Ill. 1567B	100	21	80	91	98	116	50
6	Ill. 2235W	100	22	81	90	99	116	47
7	Ill. 2231W	99	19	79	86	96	118	49
8	Ill. 2226W	99	21	80	85	99	119	48
9	Ill. 2239W	99	21	82	81	97	116	49
10	Ill. 1521B	98	23	79	89	99	114	48
11	Ill. 1459	97	23	78	76	97	119	51
12	Ill. 1540	97	22	80	91	99	116	49
13	Ill. 1349	97	20	83	80	97	115	48
14	Ill. 2159AW	96	20	79	93	96	114	49
15	U.S. 505	95	20	80	90	97	109	43
16	Mo. 804	94	21	79	79	89	119	51
17	Ill. 1332	93	17	83	89	97	108	42
18	Ill. 1721	93	22	78	89	97	112	48
19	U.S. 13	93	18	82	76	99	111	45
20	Ill. 1541A	92	19	79	88	96	118	48
21	Ill. 200	90	19	82	75	99	117	46
22	Ill. 1570	89	19	81	85	99	106	40
	Average	97	21	80	85	97	115	48
	Significant difference	5						
C — Two-year averages, 1951-1952								
1	Ill. 2214W	102	20	82	90	98	116	47
2	Ill. 1657	102	22	82	84	99	118	48
3	Mo. 862	100	24	78	84	100	116	48
4	Ill. 1771	96	20	81	95	100	116	46
5	Ill. 1539A	96	20	80	90	100	117	48
6	Ill. 2235W	96	22	81	89	100	115	46
7	Okla. 0806	94	24	78	82	99	118	50
8	Ill. 1673	94	22	80	81	96	114	47
9	Ill. 1521B	94	22	80	92	100	112	46
10	Ill. 1349	94	18	84	90	98	113	46
11	Ill. 2226W	93	21	80	84	100	118	47
12	Ill. 2231W	92	19	78	90	96	117	48
13	Ill. 2159AW	92	19	78	94	98	118	48
14	Ill. 2239W	92	20	82	80	97	114	46
15	U.S. 505	92	19	81	94	98	106	38
16	Ill. 1445A	91	20	78	78	100	120	51
17	Ill. 1459	90	21	78	86	98	118	50
18	Ill. 1332	90	16	84	92	99	106	40
19	Mo. 804	90	19	79	82	98	120	50
20	Ill. 1540	90	21	80	96	99	116	48

(Table is concluded on next page)

Table 6. — Concluded

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shelling	Erect plants	Stand	Height	
							Plant	Ear
C — Two-year averages, 1951-1952 — concluded								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>in.</i>
21	U.S. 13.....	90	17	83	80	99	110	42
22	Ill. 1656.....	90	18	84	88	99	105	36
23	Ill. 1541A.....	88	18	80	91	98	117	47
24	Ill. 1721.....	88	21	78	90	98	110	45
25	Ill. 1570.....	88	18	82	88	100	102	38
26	Ill. 1788.....	86	18	80	84	100	110	40
27	Mo. 847.....	86	20	80	88	100	117	50
28	Ill. 200.....	84	18	82	76	100	114	43
	Average.....	92	20	80	87	99	114	46
	Significant difference.....	6						
D — 1952 results (4 replications)								
1	Ill. 1856.....	91	20	81	79	100	108	48
2	Ill. 1657.....	89	22	81	79	98	114	47
3	Ill. 1849.....	89	21	77	90	100	110	44
4	Ill. 1850.....	89	21	76	92	99	111	44
5	Ill. 1851.....	89	19	78	90	100	114	48
6	Ill. 1857.....	89	21	76	90	100	113	49
7	Mo. 862.....	89	23	77	84	98	113	48
8	C.B. 9901.....	88	19	79	95	100	113	46
9	U.S. 13.....	88	16	84	91	98	109	44
10	Ill. 1656.....	87	17	86	90	100	107	40
11	Ill. 2235W.....	87	22	80	87	100	114	48
12	Ill. 1540B.....	86	20	78	94	100	113	45
13	Ill. 1848.....	86	21	76	97	98	114	48
14	Ill. 1349.....	86	17	84	94	98	108	47
15	Ill. 1859.....	85	18	80	83	100	110	46
16	Mo. 876.....	85	20	81	86	98	109	49
17	Ill. 1539A.....	84	21	79	96	100	112	47
18	Ill. 1771.....	84	19	80	93	99	113	46
19	Ill. 1521B.....	84	23	79	90	100	106	46
20	Ill. 1540.....	84	21	79	96	100	111	49
21	Ill. 1855.....	84	19	80	85	100	113	48
22	Ill. 1673.....	83	22	78	75	94	111	47
23	Ill. 1511.....	83	15	84	76	100	106	44
24	Ill. 1570.....	83	17	81	93	100	100	40
25	Ill. 1852.....	82	18	78	87	99	112	46
26	Ill. 2214W.....	82	21	81	89	98	112	46
27	Ill. 1721.....	82	21	76	94	100	108	46
28	Okla. 0806.....	81	24	77	73	100	115	50
29	Ill. 1858.....	81	22	77	92	100	108	46
30	Ill. 1567B.....	81	20	81	92	100	110	48
31	Ill. 1445A.....	81	20	76	81	100	116	51
32	U.S. 505.....	81	18	80	89	97	103	42
33	AES 805.....	80	20	80	93	100	109	42
34	Ill. 2239W.....	80	19	80	80	98	114	47
35	Ill. 1459.....	80	20	77	97	100	115	50
36	Ill. 1332.....	80	15	83	86	100	105	42
37	Mo. 804.....	80	19	78	86	98	116	50
38	Ill. 2159AW.....	79	19	75	94	98	113	47
39	Ill. 1847.....	79	19	76	94	96	113	44
40	Ill. 1846.....	79	18	80	91	100	114	46
41	Ill. 200.....	77	16	81	74	100	112	47
42	Ill. 1788.....	76	17	80	80	100	106	43
43	Mo. 847.....	76	20	78	89	100	112	48
44	Ill. 2231W.....	76	18	76	91	100	114	48
45	Ill. 2226W.....	76	22	77	91	100	114	45
46	Ill. 1854.....	75	21	79	92	99	105	42
47	Ill. 1555A.....	73	14	84	83	98	101	32
48	Ill. 1541A.....	73	18	78	92	97	112	47
49	Ill. 1853.....	67	27	80	92	100	111	46
	Average.....	82	20	79	88	99	111	45
	Significant difference.....	9						

**Table 7. — HYBRID NUMBERS, PEDIGREES AND
INDEX TO TABLES**

Hybrid	Pedigree	Performance given in Table No.
Illinois hybrids		
21.....	(Hy2 × 187-2) (WF9 × 38-11).....	3ABCD, 4ABCD, 5ABD
101.....	(M14 × WF9) (187-2 × W26).....	3BCD
200.....	(WF9 × 38-11) (L317 × K4).....	6ABCD
274-1.....	(Hy2 × WF9) (Oh7 × 187-2).....	4ACD, 5ABCD
972A-1.....	(Hy2 × L317) (WF9 × Oh7).....	4ACD, 5ABCD
1091A.....	(Hy2 × 187-2) (M14 × WF9).....	3BCD
1277.....	(M14 × WF9) (I.205 × 187-2).....	3ABCD, 4BCD
1279.....	(M14 × WF9) (A375 × 187-2).....	3BCD
1280.....	(M14 × WF9) (Os420 × 187-2).....	3ABCD, 4BCD
1281.....	(M14 × WF9) (A374 × A375).....	3CD
1289.....	(M14 × W22) (WF9 × I.205).....	3ABCD, 4BCD
1290.....	(M14 × 187-2) (WF9 × I.205).....	3BCD, 4BCD
1332.....	(Hy2 × Oh7) (WF9 × 38-11).....	4CD, 5BCD, 6BCD
1337.....	(Hy2 × R61) (WF9 × 38-11).....	5ABCD
1349.....	(38-11 × Mo940) (K155 × K201).....	6ABCD
1375.....	(M14 × WF9) (N6 × Oh51A).....	3ABCD, 4BCD
1421.....	(Hy2 × WF9) (P8 × Oh7).....	5CD
1445A.....	(38-11 × K4) (Cl.7 × Cl.21E).....	6ACD
1459.....	(38-11 × K4) (K201 × Cl.21E).....	6ABCD
1493.....	(WF9 × I.205) (Oh28 × W22).....	3CD
1511.....	(Hy2 × WF9) (38-11 × L304A).....	4ACD, 5ABCD, 6D
1515.....	(Hy2 × B10) (WF9 × 38-11).....	5ABCD
1521B.....	(38-11 × Cl.21E) (K201 × T8).....	6ABCD
1539A.....	(38-11 × Cl.7) (K201 × Cl.21E).....	6ABCD
1540.....	(38-11 × Cl.21E) (K155 × K201).....	6ABCD
1540B.....	(38-11 × K155) (K201 × Cl.21E).....	6D
1541A.....	(38-11 × Cl.7) (K155 × Cl.21E).....	6ABCD
1555A.....	(WF9 × Oh51A) (I.224 × Oh28).....	3BCD, 4BCD, 6D
1557.....	(M14 × Oh28) (I.205 × Oh51A).....	3BCD, 4BCD
1558.....	(M14 × WF9) (I.205 × Oh28).....	3BCD
1559B.....	(M14 × Oh28) (WF9 × Oh51A).....	3BCD, 4BCD
1560A.....	(WF9 × Oh51A) (I.205 × Oh28).....	3BCD, 4BCD
1567B.....	(38-11 × Ky36-11) (K201 × T8).....	6BD
1570.....	(Hy2 × Oh41) (WF9 × 38-11).....	3D, 4CD, 5BCD, 6BCD
1575.....	(M14 × WF9) (L12 × Oh28).....	3BCD, 4BCD
1579.....	(M14 × Oh43) (A73 × Oh5).....	3CD
1584.....	(M14 × L289) (Oh5 × Oh51A).....	3CD
1585.....	(M14 × L289) (Oh5 × Oh43).....	3CD
1586.....	(M14 × Oh43) (A334 × Oh5).....	3CD
1595.....	(WF9 × I.205) (187-2 × W22).....	3BCD
1609.....	(WF9 × H10) (I.205 × W22).....	4BCD
1611.....	(Hy2 × WF9) (I.205 × W22).....	4BCD
1617.....	(WF9 × B10) (Oh7 × Oh41).....	4CD
1633.....	(Hy2 × B10) (Oh7 × 187-2).....	5BCD
1656.....	(C103 × Hy2) (WF9 × 38-11).....	5BCD, 6CD

(Table is continued on next page)

Table 7. — Continued

Hybrid	Pedigree	Performance given in Table No.
Illinois hybrids (continued)		
1657.....	(K4 × Oh7) (K201 × Cl.21E).....	6BCD
1673.....	(K4 × K155) (Oh7 × Ok12).....	6BCD
1721.....	(38-11 × K155) (K201 × T8).....	6BCD
1759.....	(WF9 × 38-11) (Oh4C × Oh45).....	5CD
1760.....	(WF9 × 38-11) (Oh29 × Oh45).....	4CD, 5CD
1761.....	(Hy2 × P8) (Oh43 × Oh51A).....	5CD
1764.....	(Hy2 × WF9) (38-11 × J47).....	5CD
1766.....	(Hy2 × J47) (WF9 × 38-11).....	5CD
1767.....	(Hy2 × Oh45) (WF9 × 38-11).....	5CD
1771.....	(Oh7B × Cl.7) (T8 × Cl.21E).....	6CD
1777.....	(R114 × R116) (WF9 × Hy2).....	5CD
1781.....	(R114 × R115) (WF9 × 38-11).....	5CD
1783.....	(R114 × R116) (WF9 × 38-11).....	5CD
1788.....	(WF9 × 38-11) (Oh41 × Cl.21E).....	5CD, 6CD
1789.....	(C103 × Oh7) (WF9 × 38-11).....	5D
1795.....	(M14 × WF9) (B8 × A73).....	3CD
1796.....	(M14 × WF9) (B8 × A295).....	3D
1799.....	(M14 × WF9) (B8 × Oh51A).....	3D
1800.....	(M14 × WF9) (A73 × A295).....	3D
1801.....	(M14 × WF9) (A73 × Oh51A).....	3D
1802.....	(M14 × WF9) (A295 × Oh51A).....	3D
1805.....	(M14 × W70) (A73 × Oh51A).....	3D
1806.....	(M14 × A295) (A277 × Oh51A).....	3D
1807.....	(M14 × W70) (A295 × Oh51A).....	3D
1808.....	(B8 × A295) (A277 × W70).....	3D
1809.....	(A73 × A295) (A277 × Oh51A).....	3D
1810.....	(A73 × A295) (A277 × W70).....	3D
1811.....	(A277 × Oh51A) (A295 × W70).....	3D
1813.....	(C103 × Oh45) (Hy2 × WF9).....	4D
1814.....	(Hy2 × WF9) (M14 × Oh45).....	3D, 4D
1815.....	(Hy2 × WF9) (K237 × Oh45).....	4D
1816.....	(Hy2 × WF9) (Oh5 × Oh45).....	4D
1818.....	(R2 × M14) (R61 × W22).....	4D
1819.....	(R2 × WF9) (R61 × Oh43).....	4D
1820.....	(M14 × WF9) (R61 × Oh45).....	4D
1821.....	(M14 × WF9) (K237 × 187-2).....	4D
1822.....	(M14 × WF9) (Oh5 × Oh45).....	4D
1823.....	(M14 × WF9) (Oh5 × Oh51A).....	4D
1824.....	(M14 × WF9) (Oh5 × 187-2).....	4D
1825.....	(M14 × Oh45) (WF9 × Oh5).....	4D
1826.....	(WF9 × B35) (K237 × Oh45).....	4D
1827.....	(WF9 × B35) (Oh5 × Oh45).....	4D
1828.....	(WF9 × Oh5) (B35 × Oh45).....	4D
1829.....	(WF9 × B35) (Oh45 × W146).....	4D
1830.....	(WF9 × Oh5) (K237 × Oh45).....	4D
1831.....	(WF9 × W146) (K237 × Oh45).....	4D
1832.....	(WF9 × Oh5) (Oh45 × W146).....	4D
1834.....	(Hy2 × WF9) (R64 × H10).....	5D

(Table is continued on next page)

Table 7. — Continued

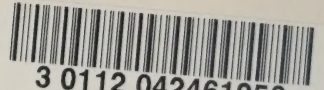
Hybrid	Pedigree	Performance given in Table No.
Illinois hybrids (concluded)		
1835.....	(Hy2 × R64) (WF9 × 38-11).....	5D
1836.....	(Hy2 × WF9) (R64 × 38-11).....	5D
1837.....	(Hy2 × WF9) (R64 × Oh29).....	5D
1841.....	(Hy2 × H10) (WF9 × 38-11).....	5D
1842.....	(Hy2 × Oh29) (WF9 × 38-11).....	5D
1843.....	(Hy2 × WF9) (38-11 × Oh29).....	5D
1845.....	(R64 × Oh29) (WF9 × 38-11).....	5D
1846.....	(C103 × CI.21E) (H10 × 38-11).....	6D
1847.....	(C103 × CI.21E) (38-11 × B10).....	6D
1848.....	(C103 × CI.21E) (38-11 × K155).....	6D
1849.....	(C103 × 38-11) (K201 × CI.21E).....	6D
1850.....	(C103 × CI.21E) (38-11 × K201).....	6D
1851.....	(C103 × 38-11) (Oh7 × CI.21E).....	6D
1852.....	(C103 × CI.21E) (38-11 × Oh7).....	6D
1853.....	(H10 × 38-11) (Oh41 × CI.21E).....	6D
1854.....	(38-11 × B10) (K201 × CI.21E).....	6D
1855.....	(38-11 × K155) (Oh7 × CI.21E).....	6D
1856.....	(38-11 × Oh7) (K201 × CI.21E).....	6D
1857.....	(38-11 × Oh41) (K201 × CI.21E).....	6D
1858.....	(38-11 × K201) (Oh41 × CI.21E).....	6D
1859.....	(38-11 × Oh7) (Oh41 × CI.21E).....	6D
1860.....	(C103 × Oh45) (WF9 × 187-2).....	4D
2159AW.....	(H21 × Ky27) (K64 × CI.61).....	6BCD
2214W.....	(R30 × Ky27) (H21 × K64).....	6BCD
2226W.....	(R30 × K64) (H21 × Ky49).....	6BCD
2231W.....	(R30 × Ky49) (K64 × CI.61).....	6BCD
2235W.....	(H21 × K64) (33-16 × Mo2RF).....	6BCD
2239W.....	(H21 × Ky27) (K64 × Mo2RF).....	6BCD
6016.....	(R78 × K4) (R84 × 38-11).....	5D
6021.....	(R75 × R76) (R84 × K4).....	5D
Miscellaneous hybrids		
AES 610.....	(M14 × A73) (Oh43 × Oh51A).....	3D
AES 702 (Ill. 1790)...	(C103 × M14) (Hy2 × WF9).....	3CD, 4CD, 5CD
AES 801.....	(WF9 × B7) (B14 × B10).....	5D
AES 802.....	(WF9 × Hy) (N6 × 38-11).....	5D
AES 803.....	(WF9 × 187-2) (N6 × K148).....	5D
AES 805 (Ill. 1770)...	(C103 × Oh45) (WF9 × 38-11).....	3D, 4CD, 5CD, 6D
C.B. 8805.....	(WF9 × 38-11) (Hy × K148).....	5D
C.B. 9901 (Ill. 1772)...	(Oh7B × Oh29) (T8 × CI.21E).....	6D
Ind. 0412.....		3D
Ind. 0421.....		3D
Ind. 0424.....		3D
Ind. 1405.....		4D
Ind. 1651.....		5D

(Table is concluded on next page)

Table 7.—Concluded

Hybrid	Pedigree	Performance given in Table No.
Miscellaneous hybrids (concluded)		
Ind. 9602.....		5D
Iowa 4297.....		4CD
I.S.P. 2 ^a	(C103 × Oh45) (M14 × WF9).....	3D, 4D
Minn. 411.....		3D
Minn. 412.....		3D
Mo. 804.....		6BCD
Mo. 847.....		6CD
Mo. 860.....		5CD
Mo. 862.....		6CD
Mo. 876.....		6D
Mo. 4041W.....		5D
Mo. 4042W.....		5D
Nebr. 1363B.....		5D
Nebr. 1389A.....		3CD
Nebr. 1602B.....		5D
Nebr. 1617B.....		4D
Nebr. 1626C.....		4D
Ohio K24.....		3CD
Ohio M15.....		3D
Ohio 4808.....		5D
Ohio 4813.....		5D
Ohio 4822.....		5D
Ohio 4915.....		4D
Okla. 0806.....		6CD
U.S. 13.....	(Hy × L317) (WF9 × 38-11)....	4ABCD, 5ABCD, 6ABCD
U.S. 505.....	(WF9 × 38-11) (K155 × T8)....	6BCD

^a Illinois Seed Producers.



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